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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/913,435	02/02/2002	Edward J. Yurkow	RU-0130	RU-0130 9557	
26259	7590 07/08/2004		EXAMINER		
LICATLA & TYRRELL P.C.			SPIVACK, PHYLLIS G		
66 E. MAIN STREET MARLTON, NJ 08053			ART UNIT	PAPER NUMBER	
			1614		
			DATE MAILED: 07/08/2004	DATE MAILED: 07/08/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/913,435	YURKOW ET AL.				
Office Action Summary	Examiner	Art Unit				
	Phyllis G. Spivack	1614				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 16 April 2004.						
·—	<u> </u>					
3) Since this application is in condition for allowa	The state of the s					
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 5</u> is/are pending in the application.						
· · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1, 5</u> is/are rejected.	☑ Claim(s) <u>1, 5</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
A44 - A						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of References Cited (F10-092) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5) Notice of Informal I 6) Other:	Patent Application (PTO-152)				

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Applicants' Reply under 37 CFR 1.111 filed April 16, 2004 is acknowledged.

Claims 2-4 are canceled. Claims 1 and 5 remain under consideration.

The disclosure is objected to for the following informality: There appears to be a typographical error on page 5, line 16, of the specification.

Appropriate correction is required.

Subsequent to amendments to claims 1 and 5 wherein various limitations were added that clearly distinguish the present subject matter from the prior art, the rejection of record of claims 1 and 5 under 35 U.S.C. 102(a) as being anticipated by Neal et al., Toxicology, is withdrawn.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1 and 5 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-4 of copending Application No. 10/228644. Although the conflicting claims are not identical, they are not patentably distinct from each other because of overlapping subject matter with

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respect to the administration of redox clamping agents in conjunction with an anticancer agent. The redox clamping agent acts as a chemoenhancer or a chemosensitizer.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claims 1 and 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention.

The recitation "selected redox state" in claims 1 and 5 is indefinite. The metes and bound of the term "selected" cannot be precisely determined. Clarification is required because "selected" is a relative term that is not defined by the claims. The specification does not provide a standard for ascertaining the scope of "selected redox state".

The following precedent is believed to be relevant to the instant case.

Regents of the University of California v. Eli Lilly & Co., 119 F. 3d 1559,1568

(Fed. Cir. 1997), cert. denied, 523 U.S. 1089, 118 S.Ct. 1548 (1998), holds that an adequate written description requires a precise definition, such as by structure, formula, chemical name or physical properties, "not a mere wish or plan for obtaining the claimed chemical invention." Eli Lilly, 119 F. 3d at 1566. The Federal Circuit has adopted the standard set forth in the Patent and Trademark Office Guidelines for Examination of Patent Applications under the 35 U.S.C. 112, 1 "written description" requirement, 66

Fed. Reg. 1099 (Jan. 5, 2001), which state that the written description requirement can

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be met by "showing that an invention is complete by disclosure of sufficiently detailed, relevant identifying characteristics," including, *inter alia*, "functional characteristics when coupled with a known or disclosed correlation between function and structure..." Enzo Biochem., Inc. v. Gen-Probe Inc., 296F.3d, 316, 1324-25 (Fed. Cir. 2002). Although Eli Lilly and Enzo were decided within the factual context of DNA sequences, this does not preclude extending the reasoning of those cases to chemical structures in general. Univ. of Rochester v. G.D. Searle & Co., 249 F. Supp.2d 216, 225 (W.D.N.Y 2003).

Applying the reasoning of the above-cited case law to the facts at hand, the instant specification describes only "redox clamping agents" that comprise thiol (sulhydryl)-containing molecules. No detailed, relevant identifying characteristics are disclosed that would adequately describe redox clamping agents without a thiol-containing moiety.

Claims 1 and 5 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure that is not enabling. Redox clamping agents comprising a thiol (sulfhydryl)-containing moiety are critical or essential to the practice of the invention, but this characteristic of the redox clamping agents is not included in the claims. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976). The ability to reduce specific cellular oxidizing systems and/or molecules while maintaining other redox active systems in the oxidized state appears to be the result of the thiol component of the compound.

Claims 1 and 5 appear to be free of the prior art.

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Any inquiry concerning this communication should be directed to Phyllis G.

Spivack at telephone number 571-272-0585.

Phyllis G. Spivack Primary Examiner Art Unit 1614

July 2, 2004

PHYLLIS SPIVACK PRIMARY EXAMINER